South Carolina Ornamental Plant Industry: Impact on the Spread of Invasive Plants



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South Carolina and North Carolina Nurseries

Nursery	Native Plants/ Total Plants	Percent Native Plants	# of Exotic Invasive Plants
LCN	14/87	16%	4
CNF	13/56	23%	7
SGP	30/76	39%	3
WWN	24/54	44%	3
BEN	73/84	87%	3
BWN	37/112	33%	11
ST	15/31	48%	2

Impact of Horticulture Industry

- 3500 exotic species have escaped cultivation in the United States
- 10 percent of those species are highly invasive

 Half of these species were introduced for horticulture



Why are EIS available in nursery trade?

- 1. Not aware of invasive potential
- 2. Consumer demand
- 3. Uniformity in the nursery and landscape
- 4. Familiar
- 5. Hardy; can thrive in most landscape soils and sites
- 6. Fast-growing
- 7. Easy to propagate





Commercial Nursery Plants

- Bred for uniformity, large flowers, compact size, pest resistance
- Must be able to thrive in an artificial environment
- Must mature quickly
- Must be able to withstand shipping and transplant





Invasive Plants of the 13 Southern States* COMMONLY SOLD IN NURSERIES

Akebia quinata Clematis ternifolia Euonymus fortunei Hedera helix Vinca major Vinca minor Berberis thunbergii Elaeagnus pungens Euonymus alatus Lantana camera Ligustrum japonicum Ligustrum lucidum Ligustrum sinense Pinus thunbergiana

Lonicera fragrantissima Mahonia bealei Nandina domestica Phyllostachys aurea Spiraea japonica Koelreutaria elegans Paulownia tomentosa Poncirus trifoliata Pyrus calleryana Ouercus acutissima Cyperus involucratus Miscanthus sinensis Ajuga reptans Foeniculum vulgare Iris pseudacorus Liriope muscari Nepeta cataria Xanthosoma sagittifolium



*Miller, J.H., E.B. Chambliss and C.T. Bargeron

South Carolina Nursery & Landscape Association February 2010



South Carolina Nursery & Landscape Association



SCHI 2010

SCNLA Member Profile: Charlie's Creek

CONTROLLING PROMOTING NAT

through Collaboration Effon

FEBRUARY 1-

SEABROOK ISLAN

Registration Now O

To view an agenda on-line and http://www.dnr.tc.gov/marine/NERR/trainingInvasive

WHO: A coming together of professionals in the fields of landscaping, land management, municipal operations, of and key members of the general public.

WHAT: A regional workshop to promote action-oriented plant species and promote the use of nutlee alternatives

Presentations will focus on:

- Connecting the issue of invasive species to the big pice
- +Sharing case studies and state-by-state updates on invi

Breakout Sessions will focus on:

- + Reducing the sale of invasives & promoting the sale of
- Moving beyond brothures to target the general public
- Innovative regulatory approaches for controlling invavi
- Forging new partnerships to maximize efficiency and e better access to resources and information.

Training Sessions will focus on:

- * Early Detection and Rapid Response (EDRR)
- Learn how to identify and manage new coastal invades Uncluding those invasives moving through the numery

Sponsored The Southeast National Estuarine i South Carolina Exatic Pe

FEBRUARY 4

Plants, Plants, Plants

Room 208

11.36 - 2:36 Planing Out Non-Native Invasive Plants from our

Earthrappe, Rev. Walvier, Sona Hormaliant Containing, Early year in the Unjoid States, we will be not east 300 told in a concern. Issues that in the singuist of avoiding the secondard shows have a septembal green and most in the secondard shows have a significant support on the decline of some populations. This lecture is designed to identify the near invocator part species in Seath Canadan and explain the environmental and assuming impact of these plants, in-masses plants with similar growth aritim and design the arrangement of the properties of the provide and approximate provide landscape alternatives. In addition, this lecture of address, wage to cradioate or personal the spread of inseregions in Canadanape alternative states.

4 mm crepy of the book Non-Netive Invasive Paum of humann Powers: A Field Guide for Identification and Commil Dr. James Miller, U.A. Fower Service's will be girent to the months.

2.70 -3.30 Outstanding Recent Tree, Shrub and Percental Introductions.

tions tested and present in John's Upstate garden

Julie Eisley
A precessed selection of receptly investiged times, shedes and
precessed soluble for South Cardina basis upon More have

3:30 - 3:45 Befreskment Break

148-448

Sthat's New in Rodbuds and Other Small Trees

Domas, J., Hanner, North Carothus Engine University.
Small teets are cortical chromes in southernial and communical inchanges. Dr. Werser will discuss reason developments in method beneding programs, and comments on other account militad adults of release from other programs. He will not highlight action of his frametre usual bandwage sums, and dealers, when now "in this representation port insulances."

445-536

Stative Plants and Soughirds in your Landscape

Bill Stringer, Genmen Crementy & SC Native Plant Security Canoning matrix plants for yone guidens sed limitings him a futurating positive segment on beauting sample of sengthints. Some suggested tens, shrubs, personnials and gainers for your conference of the position o

Caring for the Environment

Baltroom ABC

1139-2530

Biological Control of Imported Fire Auto (IPM)

Stove Company, Department of Phint Industry Changes University

Biological control has been investigated as a potential conned embod for apparent fire and, in Seeth Carolina. The presentation will discuis various beingical controls for losserous fire arts in health Carolina, including sensor photal for schemes and correy in Sensity Carolina.

1 SC Applicators Reconstitution Code 1 SC Periode Applicators Reconstitution Coditio

2:30 -3:30

How to Road a Posticide Label and Proper Storage

Digic Cook, Cook Force Supply Service
As overview of all off the most inspectant information on a
positiolist label such as personal protective againstone, meniny inservals as well in proper storage of posticides on the job

3C Pesticide Application Recordification Condit.
 NC Pesticide Application Recordification Condit.

3:30 - 3:45 Refreshment Break

2.05 4.05

Salving Common Tarf Problems ... without needing a

Jacob Bayerell, Spartacology Community College Not all communication and committeed a post that can be controlled intuntically on monotherizing. We will evaluate transp diffusion problems and give practical solutions to being your person.

help you grow a higher quality too! § SC Posterale Applicators Recontification Confir § SC Posterale Applicators Recontification Confits

4:45 -5:40

Attacking Words that Refuse to Surrender

Ind Walnerf, PAD Cleasure University.

The personalism will faint on the most difficult to control under an the hardcape. Understanding the biology of the weed and curved control moneton will be hain of the discussion. Important come that will be highlighted include the curved benishing selection specifies and control testicities selection, time of year, vir., and important measuremental fusions that impact the efficiency and safety. If SC Postulated Applications Resemblished Corelli.

1 MC Pesticide Applicates Recentification Credits

NM Pro Magazine June 2007

- Published the voluntary
 Codes of Conduct for the Nursery
 Industry
- Advocated that our industry:
 - -Develop & Introduce Sterile Forms of Invasive Species
 - -Select & Market Native Plants with Improved Characteristics
 - -Aggressively Promote Alternatives to Invasive Plants



American Nurseryman February 2009

"Breaking this cycle of supply and demand for invasive plants can be done creatively without hurting your business."

Marketing alternatives to invasive plants to appeal to consumer niches requires different strategies.

Alternatives Invasive Plants

If you drive up to a bank in blaryland, you're likely to see near, formal landscaping that comists of Japanese harberry strubs and tail. Gense rufts of blizzonfus gravs. In Souta Fe. NM. Chieses elms are cotomon asset uses. A malbrage in California has genundicovers of ice plants and prompts grass. Most people see these plants every day and recognize them as sice-looking, low-maintenance, hardy plants. They then find these same plants at their local numbers at a very reasonable price. What they don't know is that these types of plants are invasive and potentially threaten the native plants in the area. Nonsery overests, in erest cases, show that may also lated in invosive in their state, but few states have laws harring the safe of immatter plants. If the customer want that invasive plant, it meaning beats a responsibility to supply it.

Brinking the cycle of apply and demand in the designation as the form matterly and orbital facility one building. Our way is to providing that manipute about the Castelland Foreign from the Castella

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Among certificacies planes, autori plane le veri sell no i prese' postocific como free se fond, for inpre ped por none facilitarity. Mais commission specialize et regional autori, planes ficiarizad de course; Ottos resultamento sel salle special mellion de radio plane.

Wisteria frutescens 'Amethyst Falls'



- Only Wisteria sold by most nurseries
- Flowers on new growth

Taxodium distichum 'Shawnee Brave'



- 2004 Theodore Klein Plant Award Winner
- Narrow pyramidal growth habit
- Suitable for some urban landscapes

Ilex vomitoria 'Pendula'



- Attracts birds to the garden
- Evergreen with salt tolerance
- Weeping habit

Juniperus virginiana 'Brodie'





Spartina bakeri



- Great for use in marshy areas and in ditches
- Native coastal grass
- Gaining popularity with landscapers and architects

Muhlenbergia capillaris



- Wildly popular
- Easy to grow
- At some nurseries, the number one seller

Rhapidophyllum hystrix



- Very cold hardy
- Readily available in nursery trade
- Sun or shade

American Beauties

- Cooperative partnership between the National Wildlife Federation, North Creek Nurseries and Prides Corner Farms
- Marketing a selection of plants native to the Northeastern US
- Grouped into 4 categories bird, butterfly, dry shade and moist sun gardens
- Portion of each sale goes to the NWF

NATIVE PLANT







Monrovia and Dan Hinkley

Monrovia introduces Dan Hinkley Collection

The first items in Monrovia's new Dan Hinkley collection will be available in early summer 2009. The collection has seven exclusive and semi-exclusive varieties, including a frost-hardy Abutilon, four fuchsia, a winter-hardy Disporopsis and a red-leafed Mukdenia. Dan Hinkley is a renowned plant-hunter and founder of Heronswood Nursery. His collaboration with Monrovia focuses on exotic plants that do not possess the potential for bio-invasiveness.



If you knew better you'd do better

- SC-EPPC, board member
- SCNLA trade show: February 4, 2010 lecture
- Charleston Horticultural Society: March 8, 2010 lecture
- Promotion of non-invasive plants and sustainable horticulture at www.scouthort.blogspot.com